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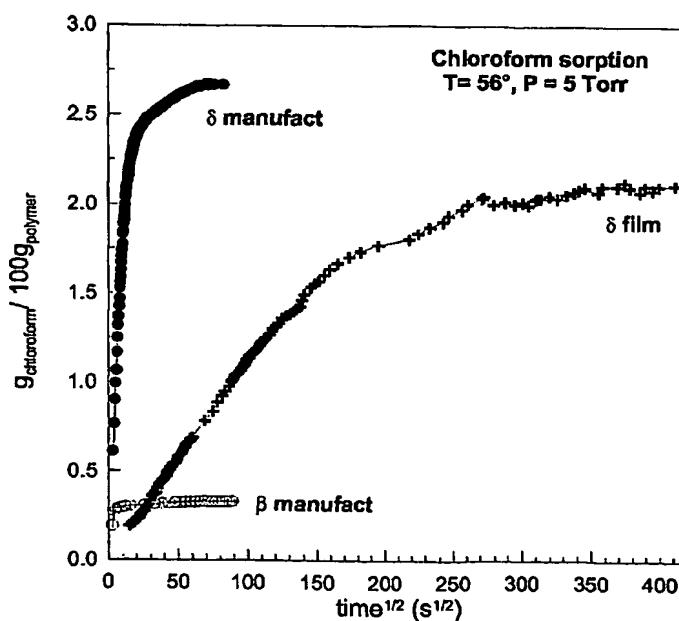
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*[Continued on next page]*

(54) Title: NANOPOROUS AND MICROPOROUS MANUFACTS BASED ON SYNDIOTACTIC POLYSTYRENE AND PROCESSES FOR THEIR PREPARATION



(57) Abstract: The present invention relates to microporous manufacts (i.e. manufact presenting high porosity, often referred as aerogels) based on syndiotactic polystyrene and characterized by the presence of cavities with nanometric dimensions characteristic of the  $\delta$  crystalline form and to processes for their preparation. These manufacts are capable to absorb with a fast kinetics volatile organic compounds from liquid or gaseous phases, also when such components are present at very low concentrations.



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